

Purine receptor agonists protect the genome of plant and animal cells from clastogen damage

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Abstract

Purine receptor agonists adenosine, cyclohexyladenosine, phenylisopropyladenosine, dimethylaminopurine riboside, ATP, and ADP reduced the level of chromosome aberrations and the number of micronuclei induced by ethylmethane sulfonate and cyclophosphamide in plants (*Crepis capillaris*) and mice. Possible mechanisms of the protective effect of these ligands are discussed.

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Keywords

Agonists, Aneugenesis, Antimutagenesis, Clastogenesis, Purine receptors